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1 Spectral prefetcher: An effective mechanism for L2 cache prefetchin

Saurabh Sharma, Jesse G. Beu, Thomas M. Conte

December 2005 **Transactions on Architecture and Code Optimization (** Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (1.26 MB) Additional Information: full citation, abstract, referen

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Effective data prefetching requires accurate mechanisms to predict emb in the miss reference behavior. This paper proposes a novel prefetching called the spectral prefetcher (SP), that accurately identifies the pattern dynamically ...

Keywords: L2 cache, Prefetch, absolute and differential domain, adapt autocorrelation, frequency, memory

2 Automated application-level checkpointing of MPI programs

Greg Bronevetsky, Daniel Marques, Keshav Pingali, Paul Stodghill

June 2003 **PPoPP '03:** Proceedings of the ninth ACM SIGPLAN symposium practice of parallel programming

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Full text available: Pdf (130.79 KB) Additional Information: full citation, abstract, referen terms

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The running times of many computational science applications, such as using *ab initio* methods, are much longer than the mean-time-to-failure performance computing platforms. To run to completion, therefore, thes

Keywords: MPI, application-level checkpointing, fault-tolerance, non-F communication, scientific computing

Also published in:

October 2003 **SIGPLAN Notices** Volume 38 Issue 10

3 Interactive resource-intensive applications made easy

H. Andrés Lagar-Cavilla, Niraj Tolia, Eyal de Lara, M. Satyanarayanan, Dav

November 2007 **Middleware '07:** Proceedings of the ACM/IFIP/USENIX 20(

Conference on Middleware
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (3.83 MB) Additional Information: full citation, abstract, referen

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 14, Citation

Snowbird is a middleware system based on virtual machine (VM) techno simplifies the development and deployment of *bimodal* applications. Suc alternate between phases with heavy computational-resource needs and

Keywords: bimodal applications, interactive response, migration, thin c thickness, virtual machines

4 A Technique for Enabling and Supporting Debugging of Field Failure
James Clause, Alessandro Orso
May 2007 **ICSE '07:** Proceedings of the 29th international conference on S Engineering
Publisher: IEEE Computer Society
Full text available: Pdf (1.38 MB) Additional Information: full citation, abstract, referen

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 65, Citation

It is difficult to fully assess the quality of software inhouse, outside the context in which it will execute after deployment. As a result, it is comm to manifest field failures, failures that occur on user machines due ...

5 Debugging reinvented: asking and answering why and why not ques program behavior
Andrew J. Ko, Brad A. Myers
May 2008 **ICSE '08:** Proceedings of the 30th international conference on S engineering
Publisher: ACM
Full text available: Pdf (900.45 KB) Additional Information: full citation, abstract, referen terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 278, Citatic

When software developers want to understand the reason for a program must translate their questions about the behavior into a series of questi speculating about the causes in the process. The Whyline is a new kind

Keywords: whyline

6 SHARK: Architectural support for autonomic protection against steali exploits
Vikas R. Vasisht, Hsien-Hsin S. Lee
November 2008 **MICRO '08:** Proceedings of the 2008 41st IEEE/ACM Interr Symposium on Microarchitecture
Publisher: IEEE Computer Society
Full text available: Pdf (538.23 KB) Additional Information: full citation, abstract, referen

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 85, Citatior

Rootkits have become a growing concern in cyber-security. Typically, th vulnerabilities to gain root privileges of a system and conceal malware's users and system administrators without any authorization. Once infect

7 Micro power meter for energy monitoring of wireless sensor network

Xiaofan Jiang, Prabal Dutta, David Culler, Ion Stoica

April 2007 **IPSN '07:** Proceedings of the 6th international conference on In processing in sensor networks

Publisher: ACM

Full text available: Pdf (3.27 MB) Additional Information: full citation, abstract, referen

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 162, Citatic

We present SPOT, *a scalable power observation tool* that enables *in situ* nodal power and energy over a dynamic range exceeding four decades resolution of microseconds. Using SPOT, every node in a sensor networ

Keywords: dynamic range, embedded, energy, meter, monitoring, pow wireless sensor networks

8 Morton Bernstein interview: March 14, 1973

Robina Mapstone

August 1999 Computer Oral History Collection

Publisher: Smithsonian Institution Press

Full text available: Publisher Site Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatic

Mort Bernstein was born in 1927. He learned to operate a desk calculat Comptrometer, in the Navy and was introduced to data processing whic to major in math at the University of Pittsburgh where he earned a MA i Pittsburgh, ...

9 A component infrastructure for performance and power modeling of scientific applications

Van Bui, Boyana Norris, Kevin Huck, Lois Curfman McInnes, Li Li, Oscar He Barbara Chapman

October 2008 **CBHPC '08:** Proceedings of the 2008 compFrame/HPC-GECO Component based high performance

Publisher: ACM

Full text available: Pdf (389.43 KB) Additional Information: full citation, abstract, referen

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 73, Citatior

Characterizing the performance of scientific applications is essential for optimization, both by compilers and by high-level adaptive numerical al maximizing power efficiency is becoming increasingly important in curre

Keywords: CCA, common component architecture, components, perfor power modeling

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